

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-45 (cancelled)

46. (currently amended) A bio-molecule sensor comprising:

a substrate;

a nanotube having first and second ends disposed on the substrate; and

a pair of electrodes disposed on the substrate, each electrode contacting an end of

the nanotube, one electrode comprising a surface coating layer including a

molecule with an affinity for the bio-molecule, wherein the surface layer

includes biotin.

47-64 (cancelled)